CHROMATOGRAPHY

PerkinElmer has been a leading provider of Chromatography solutions for over 50 years. Our team of dedicated Chromatography Specialists has an expertise that boasts years of knowledge in understanding a laboratory's product requirements. This knowledge allows us to give you a focused consumables portfolio to fit your applications. From colored inlet liners that help you easily identify the correct liner for your application to gas purification systems that remove up to 99.99% of contaminants, our precision-designed, genuine tested and approved consumables will provide you with solid, reliable support, giving you all you need to succeed. But our solutions don't stop there.

At PerkinElmer, we're committed to providing you with the best selection of solutions for all your Chromatography needs, regardless of make, model or manufacturer. We have invested heavily in growing our portfolio, at your request, to bring you the best performing and productivity enhancing consumables and accessories for all your gas chromatograph systems. Our consumables can be depended upon to meet the most demanding performance and throughput needs for today's analytical, process monitoring and quality control facilities.

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VERIFY. QUANTIFY. SIMPLIFY.

The Flexar SQ 300 MS

Ideal for a variety of analyses, this single quadrupole detector brings the unsurpassed sample insight of mass spectrometry to liquid chromatography applications. The Flexar SQ 300 MS™ is an integral part of the powerful and flexible Flexar LC product line. It features a revolutionary interchangeable probe and unique multi-stage ion path for exceptional sensitivity.

Measuring has never been easier with the Flexar SQ 300 MS. It provides the simplest route to exactly the information you need — quickly. As part of the Flexar LC platform, labs can expect exceptional chromatography coupled with an innovative rugged single quadrapole mass spectrometer that offers:

- Exceptional front-end chromatographic separation capabilities
- Flexible, modular components to suit any LC/MS analytical need
- The widest selection of operating pressures to address throughput needs

The Flexar SQ 300 MS has three ion source options that allow you to specifically address your analytical needs:

- Ultraspray™ Electrospray Interface (ESI)
- Dual-probe Ultraspray2™ ESI
- Atmospheric Pressure Chemical ionization (APCI)

Powered by the PerkinElmer Chromera® software, instrument control and data acquisition are faster and easier than ever.

Flexar SQ 300 MS

Description	Part No.
Flexar SQ 300 MS	**N2910801**
Flexar SQ 300 MS with Diverter Valve	**N2910800**

Spare Probe Assemblies / Dielectric Capillary

Description	Part No.
ESI Probe and Capillary Entrance Cone Kit	**MZ300503**
Capillary Entrance Cone	**MZ105094**
ESI Probe	**MZ109197**
Dielectric Capillary	**MZ105057-60180**
Quartz Tube for APCI	**MZ109004**
Corona Needle for APCI	**MZ301193**

Calibration solutions are required for instrument installation and for routine operations.

Calibration Solutions

Description	Part No.
Calibration Mix LC/MS (+) ION Mix	**MZ301198**
Calibration Mix LC/MS (-) ION Mix	**MZ301199**

Test Kits

Description	Part No.
SQ300 Installation Performance Test Kit	**MZ300061**
SQ300 Customer Performance Test Kit	**MZ300085**
SQ300 ESI Positive and Negative Test Kit	**MZ300096**

Spare Syringes and Needles (for Syringe Pump)

Description	Part No.
Hamilton 500uL Gas Tight Syringe (No Needle)	**09220120**
Hamilton Replacement 6-pack of Needles	**09220122**

Sound Reducing Pump Box

This pump is made from noise adsorbing material, which is oil and water resistant.

- Average 12 dB sound level decrease at 1.5 meters (by comparison: decreasing sound by 10 dB results in a 50% sound reduction).
- Heat exchange is controlled by two internal silent fans guaranteeing efficient air circulation (about 200 m3/h).
- No tools needed to access the pump compartment making routine maintenance and oil change easy to be performed.

Description	Part No.
Sound Reducing Pump Box	**MZ301123**

LCMS Filtration System

High Capacity Hydrocarbon Trap

- Contains 750 cc of preconditioned activated charcoal.
- Stainless steel body. ¼" brass compression fittngs with ferrules for installation.
- Maximum pressure 200 psi.
- Recommended flow rate up to 2 L per minute.
- Will remove hydrocarbon impurities (50 ppm or less) from inert gases, nitrogen and hydrogen at room temperature to low ppb range.
- Capacity of 67 g of hydrocarbons C5 and heavier.
- 10 µ stainless steel porous frits protect gas stream from particulates.
- Individually helium leak tested. Shipped filled wth helium.

Description	Part No.
LCMS Filtration System	**N9301208**

Custom Benches

Description	Part No.
120V Bench with Ventilated, Sound Dampened Pump Enclosure	**N2911197**
120V Bench with Monitor/Keyboard Arm, Side Shelf and Ventilated, Sound Dampened Pump Enclosure	**N2911196**
230V Bench with Ventilated, Sound Dampened Pump Enclosure	**N2911199**
230V Bench with Monitor/Keyboard Arm, Side Shelf and Ventilated, Sound Dampened Pump Enclosure	**N2911198**
Roughing Pump Box with Acoustically Insulated Pump Enclosure	**N8141230**
Uninterrupted Power Supply (UPS)	**N0777511**

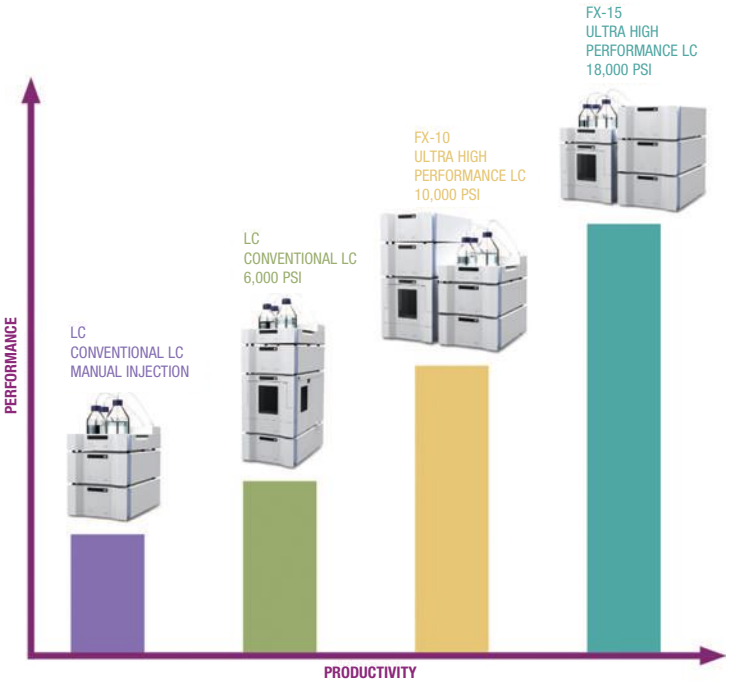
Certified LC Clean Easy-to-Order Convenience Kits

Description	Pkg	Part No.
Certified LC Clean Non-slit Cap/Vial Convenience Kit		**N9300707**
9 mm 2 mL Screw Top Clear Vial	100	
9 mm Blue Screw Top Cap with Clear Non-slit PTFE/Silicone (LC Clean)	100	
Certified LC Clean Pre-slit Cap/Clear Vial Convenience Kit		**N9300708**
9 mm 2 mL Screw Top Clear Vial with 9 mm Gray Screw Top Cap	100	
9 mm Gray Screw Top Cap with Clear Pre-slit PTFE/Silicone (LC Clean)	100	
Certified LC Clean Non-slit CapAmber Vial Convenience Kit		**N9300719**
9 mm 2 mL Screw Top Amber Vial	100	
9 mm Blue Screw Top Cap with Clear Non-slit PTFE/Silicone (LC Clean)	100	
Certified LC Clean Pre-Slit Cap/Amber Vial Convenience Kit		**N9300720**
9 mm 2 mL Screw Top Amber Vial	100	
9 mm Gray Screw Top Cap with Clear Pre-slit PTFE/Silicone (LC Clean)	100	

LCMS Caps

Description	Pkg	Part No.
9 mm Screw Cap Blue PTFE (Natural)/ Silicone (White) Ultra-low Bleed, Non-slit	100	**N9306362**
9 mm Screw Cap Blue PTFE (Natural)/ Silicone (White) Ultra-low Bleed, Non-slit	1,000	**N9306363**
9 mm Screw Cap Blue PTFE (Natural)/ Silicone (white) Ultra-low Bleed, Slit	100	**N9306364**
9 mm Screw Cap Blue PTFE (Natural)/ Silicone (white) Ultra-low Bleed, Slit	1,000	**N9306365**

POWER AND FLEXIBILITY IN UHPLC



NEW FLEXAR™ UHPLC SYSTEM FROM PERKINELMER

With Flexar UHPLC, you'll be able to transfer your existing methods to achieve faster, more predictable results while reducing your solvent consumption by up to 90%. The FX-15's patented, dual reciprocating, 18,000 psi pump offers the widest operating range with exceptional compositional accuracy and retention time repeatability. The value and performance of the FX-10 microbinary pump offers minimal disruption in your method development phase and analytical approach so you can easily port your existing methods. And with the powerfully easy new Chromera® software, instrument control is taken to a whole new level. Performance, flexibility and predictability — Flexar.

Benefits of Flexar UHPLC

- Improved separation efficiency
- Up to 90% reduction in solvent consumption — saving you money
- Up to 10x productivity gains — helping you do more in less time

Flexar UHPLC Systems

Description	Part No.
Flexar FX-10 UHPLC Platform	**NFLR0210**
Flexar FX-10 UHPLC Pump	**N2910640**
Flexar FX-10 UHP Pump Master	**N2910641**
"Flexar Bottle Manager, 3-channel Vacuum Degassing" Tubing Kit	**N2600581**

Flexar UHPLC Systems

Description	Part No.
Flexar FX-15 UHPLC Platform	**NFLR0215**
Flexar FX-15 UHPLC Pump	**N2910531**
"Flexar Bottle Manager, 3-channel Vacuum Degassing" Tubing Kit	**N2600581**

High Pressure Analytical Static Mixers

Static Mixers are important in facilitating complete mobile phase blending, resulting in improved retention performance. These mixers should be used as part of FX10, or FX15 LC systems, where high pressure blending is required. Mixers incorporate a highly efficient cross-flow shearing mechanism which produces vortex sheer mixing over a wide range of volumes. They are now offered in 18,000 psi pressure max flavor.

A good first choice selection is a volume of about half the flow rate volume. For example, when pumping at a 0.5 mL/min flow rate, a 350 µL mixer provides good mixing with very good baseline stability.

Description	Part No.
50 µL In-Line High Pressure Mixer Assembly, SS	**N2911200**
150 µL In-Line High Pressure Mixer Assembly, SS	**N2911201**
250 µL In-Line High Pressure Mixer Assembly, SS	**N2911202**
350 µL In-Line High Pressure Mixer Assembly, SS	**N2911205**
500 µL In-Line High Pressure Mixer Assembly, SS	**N2911203**
150 µL High Pressure Binary High Pressure Mixing-T, SS	**N2911206**
10 µL Binary Mixing-T, SS	**N2911170**
Binary High Pressure T-Mixer, SS, 50 µL	**N2911212**
Binary High Pressure T-Mixer, SS, 350 µL	**N2911210**
Binary High Pressure T-Mixer, SS, 500 µL	**N2911211**
T-connector, SS	**N2911127**

Syringes and Kits

PerkinElmer syringe kits for high pressure applications are manufactured for precise liquid delivery. All of these glass syringes come with precision stainless steel plungers. They are used for sampling and flushing and are available in a large variety of sizes.

Syringes

Description	Part No.
Sample Needle w/Fittings	**N2936009**
Air Guide Needle (62 mm)	**N2936000**
Bio Compatible Sample Needle w/Tubing Connector	**N2936010**
Needle (80 mm)	**N2936342**

Syringe Kits

Dimension	Buffer Tubing	Part No.
100 µL	200 µL	**N2936051**
250 µL	500 µL	**N2936052**
500 µL	1,000 µL	**N2936053**
1,000 µL	2,000 µL	**N2936054**
2,500 µL	2,000 µL	**N2936055**

FX-15 UHPLC Pump Accessories

Description	Part No.
Replacement 0.5 µm Filter Frits for FX-15 (4-pack)	**N2911224**
High Pressure FX-15 Piston Seal Kit (Need 4 per FX-15)	**N2911221**
Piston Wash Bottle Kit	**N2601616**
2,500 µL Sample Syringe Starting Kit	**N2930313**

FX-10 and FX-15 UHPLC System Accessories

Description	Color	Size	Part No.
ID PEEK Tubing			
0.004"	Black	50 cm	**N2916200**
0.005"	Red	50 cm	**N2916056**
0.004"	Black	76 cm	**N2916260**
0.005"	Red	66 cm	**N2916262**
Connector Tubing, Stainless Steel			
Flexar ISO/Binary/Quaternary Pump to Autosampler			**N2916210**
Dual Mixer Connection (≤ 250 µL)			**N2916216**
Dual Mixer Connection (³350 µL)			**N2916217**
FX-10 Pump A (Upper) to T-mixer			**N2916213**
FX-10 Pump B (Lower) to T-mixer			**N2916214**
FX-10 Purge Valve to Filter/Scavenger			**N2916212**
FX-10 Injector to Column			**N2916215**
FX-10 Pump A (Upper) to Dual Mixers			**N2916218**
FX-10 Pump B (Lower) to Dual Mixers			**N2916219**
FX-15 Pump to In-line Mixer			**N2916222**
FX-15 Pump to Dual Mixers			**N2916224**
FX-15 Injector to Column, Standard			**N2916223**
FX-15 Injector to Column, 33 cm			**N2916201**
3 cm Scavenger Cartridge Holder			**02580178**
Spheri5 Scavenger Columns (5-pack)			**02580202**
30 mL Priming Syringe			**09904849**
FX-15 C18 Scavenger Column Kit			**N2910765**
FX-15 C18 Scavenger Columns (2/pkg)			**02580223**

Microsyringes (For Manual Injection)

Syringes are used for accurate and precise liquid delivery. Each syringe is hand-fitted to assure maximum accuracy. Our syringes are composed of glass barrels and precision stainless steel needles. The needle features a blunt tip, required for use with a Rheodyne injector.

Description	Part No.
10 µL Syringe	**09904937**
25 µL Syringe	**09904823**
50 µL Syringe	**09904941**
100 µL Syringe	**09904822**
Rheodyne 22-gauge Blunt Needle with Luer Hub	**09904943**

INJECT WITH GREATER PRECISION

Flexar Autosamplers

Best-in-class cycle time. Wide injection volume range. Excellent injection reproducibility. Precisely what you need to increase your sample throughput and efficiency.

Features and Benefits

- Injects sample volumes as little as 1 µL at pressures up to 18,000 psi with the FX UHPLC Autosampler
- Loads sample in only 8 seconds (in partial fill mode)
- Three injection modes: full loop, partial fill and µL-pickup with no sample waste
- Peltier cooling/heating mode option for operation at 4 °C to 40 °C. Will reach 4 °C ± 2 °C, achievable even at ambient temperatures up to 25 °C.

All Flexar autosamplers can be upgraded in the field for Peltier cooling and heating. All Flexar autosamplers include:

- 100-sample tray
- 100 2 mL vials
- 100 2 mL screw top cap with cross slit vial septum
- Tubing to connect to waste reservoir
- I/O cable (Pump Start/Ready-In)
- Service Manager SW CD
- User's Manual
- Nuts and ferrules
- All fuses for 120–240 V
- All cables required for connection to a TotalChrom or Chromera Operating Environment

Flexar or Series 225/275 Autosampler Trays and Accessories

Description	Part No.
25-Position 6 mL Vial Sample Tray	**N2936045**
80-Position 2 mL Vial plus (5) 6 mL Vial Tray (for derivatization)	**N2936046**
80-Position 2 mL Vial Tray with Dilution Tray	**N2930676**
96-well Microtiter Adapter	**N9302562**
96-well 'Deep-well' Microtiter Adapter	**N9302560**
96-well 7 mm Pre-slit Silicone Plate Mat/Seal	**N9302555**
96-well 'Deep' Microtiter Plate Adaptor (Supports Dual Microtiter Plates)	**N2936048**
96-well 'Shallow' Microtiter Plate Adaptor (Supports Dual Microtiter Plates)	**N2936049**
384-well Microtiter Adapter	**N2936050**
100-Position 2 mL Vial Sample Tray	**N2936042**
(200) 0.2 mL Microvial plus (5) 2 mL Vial Tray	**N2936043**
250 µL Syringe Tip Replacements (10/pkg)	**N2936003**
Flexar/225 Biocompatible Upgrade Kit (w/valve)	**N2930675**
1/16" OD x 0.038" ID Teflon Tubing (AS Transfer Line)	**02506495**

Flexar Autosamplers and Upgrade Kits

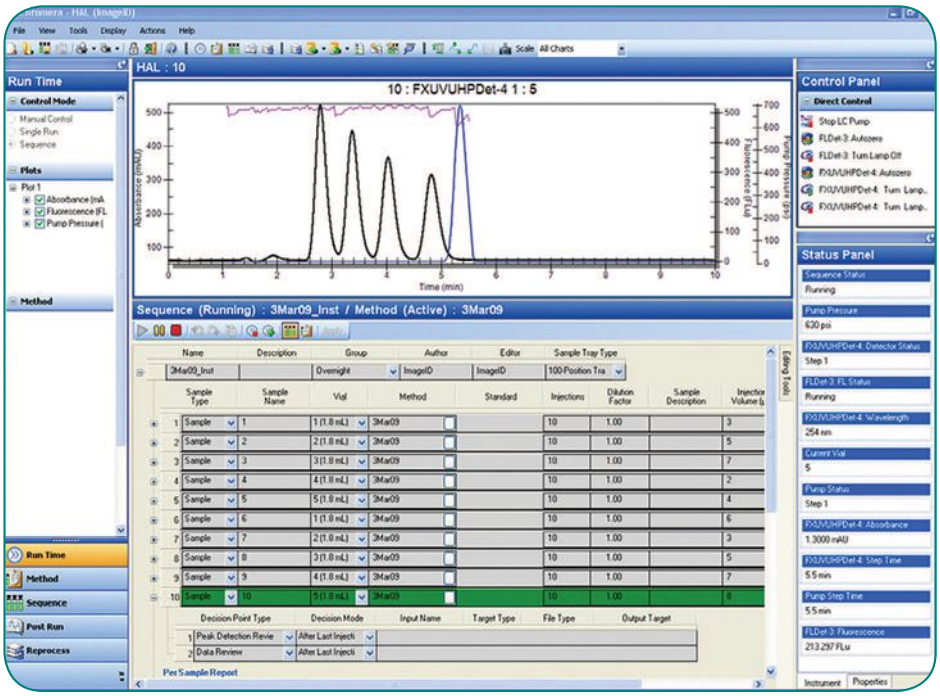
Description	Part No.
Flexar LC Autosampler	
High throughput autosampler with exceptionally low carryover. Operates up to 6,100 psi (420 bar). Provides flexible injection modes: full-loop, partial-fill and µL-Pickup (no sample waste). Peltier cooling and heating options available as field upgrades. Comes standard with 100 µL loop and 250 µL sample flush syringe.	**N2930660**
Flexar Peltier LC Autosampler	
High throughput autosampler with exceptionally low carryover. Operates up to 6,100 psi (420 bar). Provides flexible injection modes: full-loop, partial-fill and µL-Pickup (no sample waste). Built-in Peltier cooling comes standard. Peltier heating option available as field upgrade. Comes standard with 100 µL loop and 250 µL sample flush syringe.	**N2930661**
Flexar FX UHPLC Autosampler	
High throughput UHPLC autosampler with exceptionally low carryover. Operates up to 18,000 psi (1,241 bar). Provides flexible injection modes: full-loop, partial-fill and µL-Pickup (no sample waste). Built-in Peltier cooling comes standard. Peltier heating option available as field upgrade. Comes standard with 10 µL loop and 250 µL sample flush syringe.	**N2930664**
Field Upgrade Peltier Kits	
Flexar and Series 225 Upgrade Kit (from standard to Peltier Cooling option)	**N2930672**
Flexar and Series 225 Upgrade Kit (from standard to Peltier Cooling and Heating option)	**N2930673**
Flexar and Series 225 Upgrade Kit (from Peltier Cooling to Peltier Cooling and Heating option)	**N2930669**

CHROMERA® CHROMATOGRAPHY DATA SYSTEM

THE POWERFULLY EASY CDS

One click and you'll see: CDS doesn't get any easier than Chromera. Combining intuitive ease of use with powerful functionality and configurability, Chromera delivers the most streamlined way to get from the analysis you need to the information your enterprise demands. It's powerfully easy.

Information-rich Desktop offers instrument control at-a-glance



Features and Benefits

Powerful

- Instrument Control: NEW patented "Device Descriptors" control instruments. No channels limitation, trackable instrument status
- Designed for UHPLC: interactive graphical methods optimization environment with immediate feedback; ability to overlay pressure profile run after run. Extend runtime of chromatogram in real time
- Graphics: Multichannel graphics for multiple signal channel monitoring (including system status channels to get 'the pulse of the system' real-time)
- Feedback: Instrument-at-a-glance status panel provides real-time feedback of complete LC system
- Batch Sequencing: all the functions for setting up and reviewing a sequence and results are within a single environment

Easy

- Shallow footprint GUI: Most functions only one or two clicks away, using familiar Microsoft™ Outlook user interface
- Simple and obvious method editor: a single-point access to all instrument parameters, regardless of how complex the instrument configuration; Convenient tools for point-and-click method optimization
- Intuitive Sequence Wizard: Create complex sample tables easily; Convenient auto-fill and other editing functions; Decision Points for real-time and post-processing data evaluation
- Peak Integration Wizard: Makes integration process easy and straight forward
- Report Wizard: allows creating numerous styles of reports and printouts using the same tool

LC VIALS, CAPS AND SEPTA KITS

PerkinElmer Supplies – Tested and Approved

We have expanded our product selection to include additional vial types, new version caps and mating septa in a kit format for easier customer ordering. The following pages contain both current and new product information. Tested to meet your application requirements and guaranteed for fit and compatibility.

LC Vials, Caps and Septa Kits

PerkinElmer offers a variety of vials, caps and septa to fulfill your application needs. Our screw thread vial caps use the revolutionary Inter-Seal®. Using a process that bonds silicone/PTFE and other elastomeric compounds directly into thermoplastic closures eliminates liner fallout, while still providing the excellent resealability and multiple injection capability. No adhesives are used in this process, bonding the cap and septa at the molecular level of plastic and rubber. These septa have a very broad chemical resistance and can be used in many markets including: environmental, diagnostic packaging, pharmaceutical packaging, cosmetic and food packaging.

2.0 mL Glass Vials*

Description	Pkg.	Part No.
2 mL 11 mm Clear Glass Crimp Vials	100	**N9301385**
2 mL 11 mm Clear Crimp Wide Opening Vials with Write-On Patch and Fill Lines	100	**N9306223**
2 mL 11 mm Amber Glass Crimp Vials	100	**N9302680**
2 mL 11 mm Amber Crimp Wide Opening Vials with Write-On Patch and Fill Lines	100	**N9302679**
2 mL 11 mm Clear Snap Top Vial	100	**N9303418**
2 mL 11 mm Clear Snap Wide Opening Vials with Write-On Patch and Fill Lines	100	**N9306207**
2 mL 11 mm Amber Snap Wide Opening Vials with Write-On Patch and Fill Lines	100	**N9306208**
2 mL 8 mm Screw Top Clear Glass Vials	100	**N9302945**
2 mL 9 mm Clear Screw Top Vials	100	**N9306201**
2 mL 9 mm Screw Top Amber Vials	100	**N9306220**
2 mL 9 mm Clear Screw Top Vial with Write-On Patch and Fill Lines	100	**N9307801**
2 mL 9 mm Screw Top Amber Vials with Write-On Patch and Fill Lines	100	**N9307802**
2 mL 10 mm Clear Glass Screw Top Vials with Write-On Label and Fill Lines	100	**N9306053**
2 mL 10 mm Amber Glass Screw Top Vials with Write-On Label and Fill Lines	100	**N9306057**

2.0 mL Caps and Septa*

Description	Pkg.	Part No.
11 mm Snap Cap Polyethylene Cross-cut Slit (no Septum)	1,000	**04978532**
11 mm Snap Cap Polyethylene Single Slit (no Septum)	1,000	**N9307023**
8 mm Black Screw Caps (without septa)	100	**N9303441**
8 mm SEPTA-PTFE Red Rubber No CAP (for Cap N9303441)	100	**N9303442**
8 mm Screw Cap PTFE/Silicone Septa	100	**N9303449**
9 mm PTFE/Silicone Screw Cap Blue	100	**N9306202**
10 mm PTFE/Red Rubber Screw Cap Black	100	**N9306206**
10 mm PTFE/Silicone Single Slit Screw Cap Black	100	**N9306052**
10 mm PTFE/Silicone No Slit Screw Cap Black	100	**N9306205**
11 mm Crimp Green Aluminum Cap w/Teflon® Rubber Septa	100	**N9302684**
11 mm Crimp Red Aluminum Cap w/Teflon® Rubber Septa	100	**N9302685**
11 mm Crimp Blue Aluminum Cap w/Teflon® Rubber Septa	100	**N9302686**
11 mm Crimp Silver Aluminum Cap w/Teflon® Rubber Septa	100	**N9306015**
11 mm Crimp Silver Red Rubber	100	**N9306230**
11 mm Crimp Silver PTFE/Silicone	100	**N9306228**
11 mm Crimp Silver PTFE/Silicone/PTFE	100	**N9306229**

* Also see Convenience Kits for additional vials and caps, sold separately.

0.2 mL Micro Vials, Caps and Septa

Description	Pkg.	Part No.
Caps/Septa		
8 mm Silver Aluminum Crimp Cap PTFE/Rubber	1,000	**03300806**
PTFE/Pre-Slit White Silicone Polyethylene Press-On Cross-Slit Cap for 8 mm Vials	1,000	**N9302141**
Crimp Top Vials		
Glass Microvials, Tapered, 0.2 mL, 8 mm o.d. Top**	500	**N9302136**
Autosampler Vial Sleeve		
12 x 32 Glass Vial Support Sleeve for 2 mL 8 mm Micro Vials (N9302136)	25	**N9307027**
Micro Vial Kit		
Polyethylene Includes 300 µL Tapered Vial, Blue Polypropylene Cap with Bonded Silicone/PTFE Septa	500	**N9306080**

** To be used with Glass Vial Support Sleeve (N9307027).

UHPLC – General Starter Kit

Description	Part No.
UHPLC – General Starter Kit	**N2930801**

Contents	Qty/Pack	Part No.
Open-End Wrench	2	**09907233**
Adjustable Wrench	1	**N9301326**
Reversible Screw Driver	1	**N9301480**
Parker-Hannifin ZDV SS Union	1	**09903289**
Parker-Hannifin Medium-Stem SS Nuts	10	**09903980**
1/16" Parker-Hannifin SS Ferrules	10	**00873032**
1/16" Valco SS Ferrules	6	**09903891**
Finger-Tight Fittings, PEEK, 5.5K psi Max. (5/pk)	1	**N9307822**
Optimize Technologies EZP (Hand-Tight Fitting to 13K psi, Wrench-tight to 20K psi)	1	**N9306301**
1/16" Tefzel Nuts	2	**09920381**
1/16" Tefzel Reverse Ferrules	2	**09920382**
1/8" Tefzel Nuts	4	**N2601189**
1/8" Tefzel Reverse Ferrules	4	**09903771**
PEEK Tubing Cutter (Includes 5 Extra Blades)	1	**N9307820**
50 cm x 0.005" ID 1/16" SS Tubing	3	**02507060**
5' x 0.004" ID 1/16" PEEK Tubing, Black	1	**N2916261**
5' x 0.005" ID 1/16" PEEK Tubing, Red	1	**N2916262**
30 mL Priming Syringe	1	**09904849**
2 mL Clear Write-On Vials w/10 mm Pre-Slit PTFE/Silicone Caps; 100/pk	1	**N9300695**
Cable/Tubing Organizer Clip	3	**NX598006**

HPLC – General Starter Kit

Description	Part No.
HPLC – General Starter Kit	**N2930802**

Contents	Qty/Pack	Part No.
Open-End Wrench	2	**09907233**
Adjustable Wrench	1	**N9301326**
Reversible Screw Driver	1	**N9301480**
Parker-Hannifin ZDV SS Union	1	**09903289**
Parker-Hannifin Medium-Stem SS Nut	10	**09903980**
1/16" Parker-Hannifin SS Ferrule	10	**00873032**
1/16" Valco SS Ferrules	6	**09903891**
Rheodyne SS Nut, Short Stem	2	**09904956**
Rheodyne SS Nut, Long Stem	2	**09904974**
1/16" Rheodyne SS Ferrule	4	**09904947**
1/16" Tefzel Nuts	2	**09920381**
1/16" Tefzel Reverse Ferrules	2	**09920382**
1/8" Tefzel Nuts	4	**N2601189**
1/8" Tefzel Reverse Ferrules	4	**09903771**
Finger-Tight Fittings, PEEK, 4K psi Max.	6	**09920513**
PEEK Tubing Cutter (Includes 5 Extra Blades)	1	**N9307820**
50 cm x 0.005" ID 1/16" SS Tubing	1	**02507060**
50 cm x 0.007" ID 1/16" SS Tubing	2	**00891480**
5' x 0.007" ID 1/16" PEEK Tubing, Yellowish-Tan	1	**N9302650**
5' x 0.005" ID 1/16" PEEK Tubing, Red	1	**N2916262**
30 mL Priming Syringe	1	**09904849**
2 mL clear write-on vials w/10 mm Pre-Slit PTFE/Silicone Caps; 100/pk	1	**N9300695**
Cable/Tubing Organizer Clip	3	**NX598006**

Autosampler Vial Glass Inserts

Description	Pkg.	Part No.
Vial Glass Inserts:		
6 mm x 29 mm Clear Glass Insert, Rimless Pulled Point with Bottom Spring, 250 µL Usable Volume	100	**N9300703**
6 mm x 31 mm Clear Glass Flat Bottom Insert, 400 µL Usable Volume	100	**N9300704**
Use with: 10 mm 2 mL Amber Screw Top Vial w/White "P" Icon w/Patch		**N9306057**
10 mm 2 mL Clear Screw Top Vial w/White "P" Icon w/Patch		**N9306053**
11 mm Clear Large Opening Snap Ring Vial w/Black "P" Icon		**N9303418**
11 mm Clear Large Opening Crimp Vial w/Black "P" Icon		**N9306231**
9 mm 2 mL Amber Screw Top Vial w/Black "P" Icon		**N9306220**
9 mm 2 mL Clear Screw Top Vial w/Black "P" Icon		**N9306201**
5 mm x 29 mm Clear Glass Insert, Rimles Pulled Point with Bottom Spring, 150 µL Usable Volume	100	**N9300705**
5 mm x 31 mm Clear Glass Flat Bottom Insert, 200 µL Usable Volume	100	**N9300706**
Use with: 11 mm Standard Amber Crimp Vial w/Black "P" Icon		**N9302680**
11 mm Standard Clear Crimp Vial w/Black "P" Icon		**N9301385**
8 mm 2 mL Clear Screw Top Vial w/Black "P" Icon		**N9302945**
6 mL Vials and Caps		
6 mL Glass Large-Volume Vials with 20 mm o.d. Top	125	**N9302134**
Polyethylene Press-On Slit Caps/Septa or 20 mm o.d. Top Vials	25	**N2936083**

Micro Vial Kit and Polypropylene Vial/Cap Kits

Description	Pkg.	Part No.
Polyethlene Micro Vial Kit – Pkg/500 Includes: 300 uL Tapered Screw Top Vials (Pkg/500) Blue Polypropylene 9 mm Caps w/Bonded Silicone/PTFE Septa (Pkg/500)	500	**N9306080**
1.5 mL Polypropylene Screw Top Amber Vial With Fill Lines, Teflon®/Silicone Septa and Cap With Single Slit	100	**N9301735**
1.5 mL Polypropylene Screw Top Clear Vial With Fill Lines, Teflon®/Silicone Septa and Cap With Single Slit	100	**N9301736**

EASY-TO-ORDER CONVENIENCE KITS

Certified LC Clean™ Kits (Vials and Caps/Septa sold separately.)

NEW

Description	Pkg.	Part No.
Certified LC Clean™ Non-Slit Cap/Vial Convenience Kit (Pkg. of 100) 9 mm 2 mL Screw Top Clear Vial with 9 mm Blue Screw Top Cap Clear Non-Slit PTFE/Silicone (LC Clean™)	100	**N9300707**
Certified LC Clean™ Pre-Slit Cap/Vial Convenience Kit (Pkg. of 100) 9 mm 2 mL Screw Top Clear Vial with 9 mm Gray Screw Top Cap Clear Pre-Slit PTFE/Silicone (LC Clean™)	100	**N9300708**
NEW Certified LC Clean™ Non-Slit Cap/Vial Convenience Kit (Pkg. of 100) 9 mm 2 mL Screw Top Amber Vial with 9 mm Blue Screw Top Cap Clear Non-Slit PTFE/Silicone (LC Clean™)	100	**N9300719**
NEW Certified LC Clean™ Pre-Slit Cap/Vial Convenience Kit (Pkg. of 100) 9 mm 2 mL Screw Top Amber Vial with 9 mm Gray Screw Top Cap Clear Pre-Slit PTFE/Silicone (LC Clean™)	100	**N9300720**

Convenience Kits (Vials and Caps/Septa sold separately.)

Description	Pkg.	Part No.
9 mm Pre-Slit PTFE/Silicone Screw Cap Convenience Kit (Pkg. of 100)		**N9300701**
9 mm Pre-Slit PTFE/Silicone Screw Cap Assembly (Pkg. of 100)	1	**N9306203**
9 mm 2 mL Clear Screw Vial Kit (Pkg. of 100)	1	**N9306201**
9 mm Red Rubber/Screw Cap Convenience Kit (Pkg. of 100)		**N9300699**
9 mm Red Rubber/Screw Cap Assembly (Pkg. of 100)	1	**N9306200**
9 mm Clear 2 mL Vial Kit (Pkg. of 100)	1	**N9306201**
9 mm PTFE/Silicone Screw Cap Convenience Kit (Pkg. of 100)		**N9300700**
9 mm PTFE/Silicone Screw Cap Assembly (Pkg. of 100)	1	**N9306202**
9 mm Clear 2 mL Vial Kit (Pkg. of 100)	1	**N9306201**
11 mm Pre-Slit PTFE/Silicone Snap Convenience Kit (Pkg. of 100)		**N9300697**
11 mm Pre-Slit PTFE/Silicone Snap Cap Assembly (Pkg. of 100)	1	**N9303416**
11 mm 2 mL Clear Snap Vial Kit (Pkg. of 100)	1	**N9303418**
11 mm PTFE/Silicone/PTFE Snap Convenience Kit (Pkg. of 100)		**N9300698**
11 mm PTFE/Silicone/PTFE Clear Snap Cap Assembly (Pkg. of 100)	1	**N9303417**
11 mm 2 mL Clear Snap Vial Kit (Pkg. of 100)	1	**N9303418**
10 mm Clear Pre-Slit PTFE/Silicone Screw Cap Convenience Kit (Pkg. of 100)		**N9300695**
10 mm Pre-Slit PTFE/Silicone Screw Cap Assembly (Pkg. of 100)	1	**N9306052**
10 mm 2 mL Clear Screw Vials with Write-On Patch and Fill Lines (Pkg. of 100)	1	**N9306053**
10 mm Amber Pre-Slit PTFE/Silicone Screw Cap Convenience Kit (Pkg. of 100)		**N9300696**
10 mm Pre-Slit PTFE/Silicone Screw Cap Assembly (Pkg. of 100)	1	**N9306052**
10 mm 2 mL Amber Screw Top Vials with Write-On Patch and Fill Lines (Pkg. of 100)	1	**N9306057**
11 mm PTFE/Silicone Snap Convenience Kit (Pkg. of 100)		**N9300702**
11 mm PTFE/Silicone Snap Cap Assembly (Pkg. of 100)	1	**N9303419**
11 mm 2 mL Clear Snap Vial Kit (Pkg. of 100)	1	**N9303418**
11 mm Red Rubber Crimp Convenience Kit (Pkg. of 100)		**N9300502**
11 mm Red Rubber/Silver Crimp Assembly (Pkg. of 100)	1	**N9306230**
11 mm 2 mL Clear Vial Kit (Pkg. of 100)	1	**N9306231**
11 mm Red Rubber Crimp Convenience Kit (Pkg. of 500)		**N9300503**
11 mm Red Rubber/Silver Crimp Assembly (Pkg. of 100)	5	**N9306230**
11 mm 2 mL Clear Vial Kit (Pkg. of 100)	5	**N9306231**
11 mm PTFE/Silicone Crimp Convenience Kit (Pkg. of 100)		**N9300500**
11 mm PTFE/Silicone Crimp Assembly (Pkg. of 100)	1	**N9306228**
11 mm 2 mL Clear Vial Kit (Pkg. of 100)	1	**N9306231**
11 mm PTFE/Silicone/PTFE Crimp Convenience Kit (Pkg. of 100)		**N9300501**
11 mm PTFE/Silicone/PTFE Crimp Assembly (Pkg. of 100)	1	**N9306229**
11 mm 2 mL Clear Vial Kit (Pkg. of 100)	1	**N9306231**

Vials with Fused Glass Sample Inserts

Description	Pkg	Part No.
2 mL 11 mm Large Opening Crimp Top Clear 0.3 mL Insert	100	**N9300709**
2 mL 11 mm Large Opening Crimp Top Amber 0.3 mL Insert	100	**N9300710**
2 mL 11 mm Large Opening Snap Top Ring Clear 0.3 mL Insert	100	**N9300711**
2 mL 11 mm Large Opening Snap Top Ring Amber 0.3 mL Insert	100	**N9300712**
2 mL 8 mm Screw Top Clear 0.1 mL Insert	100	**N9300713**
2 mL 8 mm Amber Screw Top 0.1 mL Insert	100	**N9300714**
2 mL 9 mm Large Opening Screw Top Clear 0.3 mL Insert	100	**N9300715**
2 mL 9 mm Large Opening Screw Top Amber 0.3 mL Insert	100	**N9300716**
2 mL 10 mm Large Opening Screw Top Clear 0.3 mL Insert	100	**N9300717**
2 mL 10 mm Large Opening Screw Amber 0.3 mL Insert	100	**N9300718**

Liquid Chromatography Laboratory Bottle Kits

Description	Part No.
1x5L Bottle with Cap and Teflon Insert, 2m PTFE ⅛" Tubing and 1x10um SS Solvent Frit	**N2601610**
1x2L Bottle with Cap and Teflon Insert, 1m PTFE ⅛" Tubing and 1x10um SS Solvent Frit	**N2601611**
1x1 L Bottle with Cap and Teflon Insert, 1m PTFE ⅛" Tubing and 1x10um SS Solvent Frit	**N2601612**
1x0.5L Bottle with Cap and Teflon Insert, 1m PTFE 1/16" Tubing and 1x40um SS Solvent Frit	**N2601613**
1 Cap with Teflon Insert, 1m PTFE ⅛" Tubing and 1x10um SS Solvent Frit	**N2601614**
1 Cap with Teflon Insert, 1m PTFE 1/16" Tubing and 1x40um SS Solvent Frit	**N2601615**
1x0.5L Bottle with Cap and Dual Teflon Insert, 2 pcs of 1m PTFE ⅛" Tubing (Piston Wash Function)	**N2601616**
1 Cap with Dual Teflon Insert, 2 pcs of 1 m PTFE ⅛"Tubing and 1x10um SS Solvent Frit (Piston Wash Function)	**N2601617**

Disposable Syringes

Description	Part No.
Disposible Syringes, Luer-Lock Tips, 1 mL (100PK)	**02542890**
Disposible Syringes, Luer-Lock Tips, 3 mL (200PK)	**02542891**
Disposible Syringes, Luer-Lock Tips, 5 mL (100PK)	**02542892**
Disposible Syringes, Luer-Lock Tips, 10 mL (100PK)	**02542893**

Syringe Filters

Size	Color	Pkg	Part No.
Nylon			
0.22 µm, 4 mm	Clear	200	**02542900**
0.45 µm, 4 mm	Clear	200	**02542901**
0.22 µm, 13 mm	Purple	100	**02542902**
0.45 µm, 13 mm	Purple	100	**02542903**
0.22 µm, 17 mm	Yellow	100	**02542881**
0.45 µm, 17 mm	Yellow	100	**02542880**
0.22 µm, 25 mm	Purple	100	**02542904**
0.45 µm, 25 mm	Purple	100	**02542905**
0.22 µm, 30 mm	Yellow	100	**02542883**
0.45 µm, 30 mm	Yellow	100	**02542882**
PTFE (Hydrophobic)			
0.22 µm, 4 mm	Clear	200	**02542906**
0.45 µm, 4 mm	Clear	200	**02542907**
0.22 µm, 13 mm	Red	100	**02542908**
0.45 µm, 13 mm	Red	100	**02542909**
0.22 µm, 17 mm	Red	100	**02542884**
0.45 µm, 17 mm	Red	100	**02542910**
0.22 µm, 25 mm	Red	100	**02542911**
0.45 µm, 25 mm	Red	100	**02542912**
0.22 µm, 30 mm	Red	100	**02542886**
0.45 µm, 30 mm	Red	100	**02542885**
PVDF			
0.22 µm, 4 mm	Clear	200	**02542913**
0.45 µm, 4 mm	Clear	200	**02542914**
0.22 µm, 13 mm	Yellow	100	**02542915**
0.45 µm, 13 mm	Yellow	100	**02542783**
0.22 µm, 17 mm	Maroon	100	**02542916**
0.45 µm, 17 mm	Maroon	100	**02542917**
0.22 µm, 25 mm	Yellow	100	**02542918**
0.45 µm, 25 mm	Yellow	100	**02542919**
0.22 µm, 30 mm	Maroon	100	**02542920**
0.45 µm, 30 mm	Maroon	100	**02542921**
PTFE (Hypdrophilic)			
0.22 µm, 4 mm	Clear	200	**02542922**
0.45 µm, 4 mm	Clear	200	**02542923**
0.22 µm, 13 mm	Red	100	**02542924**
0.45 µm, 13 mm	Red	100	**02542925**
0.22 µm, 25 mm	Red	100	**02542926**
0.45 µm, 25 mm	Red	100	**02542927**
0.22 µm, 30 mm	Red	100	**02542928**
0.45 µm, 30 mm	Red	100	**02542929**

SUPERIOR REPRODUCIBILITY SUPERIOR RESULTS

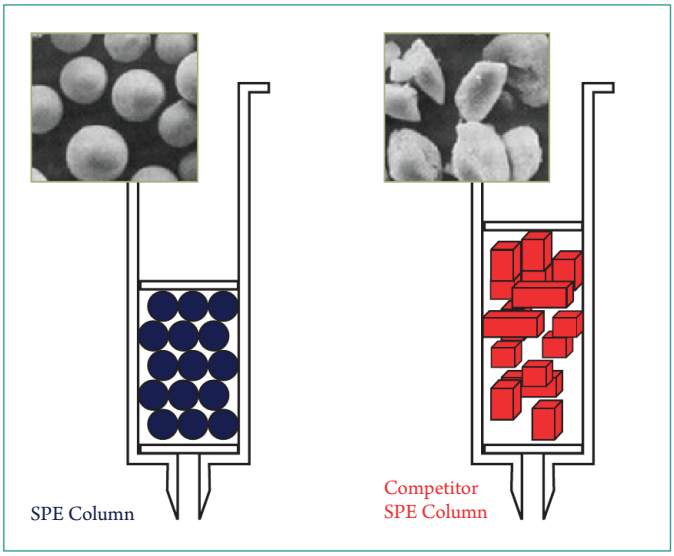
Supra-Clean and Supra-Poly SPE Solutions

Manufactured for guaranteed reproducibility and superior performance, this innovative line of SPE solutions includes the Supra-Clean® silica based and Supra-Poly® polymer based line of spherical media SPE cartridges and columns.

Both utilize Precise Bed Technology® allowing columns to be evenly and consistently filled with particles sized for optimum distribution. This homogeneous filling yields a +/- 1% variation in bed volume precision, ensuring you experience repeatability and optimized recovery reproducibility.

Ideal for a broad array of analytes and matrices, SPE solutions are available in a variety of formats including Large Reservoir Capacity (LRC) columns, Polypropylene (PP) columns and cartridges, and glass columns. Each technology is offered with a wide selection of polymer and silica sorbents, and large and small sample volumes (50µL-1L) allow you to perform scalable analyses depending upon your required detection limits.

Each finished product is delivered with an individual quality certificate.



Spherical media and consistent particle distribution enable smaller elution volumes and better, more reproducible extraction, purification, concentration and recovery.

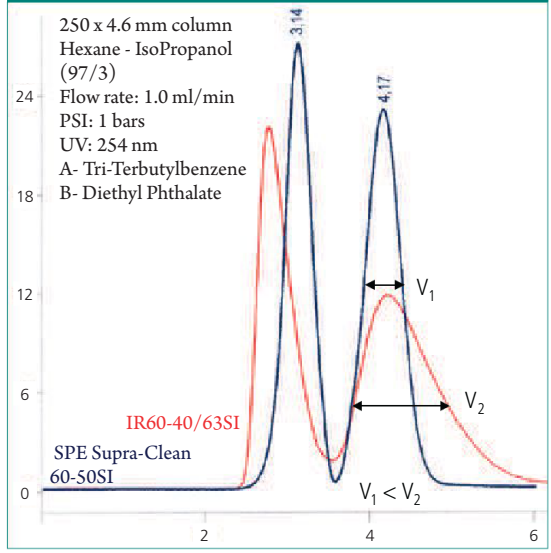
SPE Manifolds, Selection Kits and Application Packs

For greater method development simplicity and sample throughput, PerkinElmer offers a variety of pre-prepared column selection kits as well as application kits for you to choose from.

SPE Manifolds:

- Allow you to process up to 24 samples simultaneously
- Seamlessly integrate with columns to extend the system's performance and reproducibility
- Feature polypropylene or stainless steel needle valves and tips with minimum dead volume
- Rugged stopcocks are reusable and provide independent flow control

Performance Comparison of PerkinElmer Spherical SPE Media vs. Leading Irregular SPE Silica.



PerkinElmer's smaller, more homogeneous, spherical media deliver sharper, narrower peaks for faster, more accurate sample analysis.

Manifolds, Selection Kits and Application Packs to Streamline Your Sample Preparation

For greater method development simplicity and sample throughput, PerkinElmer offers a variety of pre-prepared kits and column manifolds.

Features and Benefits

- Allow you to process up to 24 samples simultaneously
- Seamlessly integrate with columns to extend the system's performance and reproducibility
- Feature polypropylene or stainless steel needle valves and tips with minimum dead volume
- Rugged stopcocks are reusable and provide independent flow control

SPE Manifolds and Accessories

Description	Pkg	Part No.
Cover, Gasket, 12 Stopcocks	12	**N9306621**
Cover, Gasket, 24 Stopcocks	24	**N9306628**
Drying Attachment 12 Positions	12	**N9306625**
Drying Attachment 24 Positions	24	**N9306632**
Glass Chamber 12 Positions	12	**N9306620**
Glass Chamber 24 Positions	24	**N9306627**
Needles Polypropylene 12 Positions	12	**N9306622**
Needles Polypropylene 24 Positions	24	**N9306629**
Needles Stainless Steel 12 Positions	12	**N9306623**
Needles Stainless Steel 24 Positions	24	**N9306630**
Stopcocks 12 Positions	12	**N9306624**
Stopcocks 24 Positions	24	**N9306631**
Vacuum Manifold Complete Set 12 Positions	12	**N9306619**
Vacuum Manifold Complete Set 24 Positions	24	**N9306626**

SPE Selection Kits

Selection kits enable quick column selection for development of reproducible and repeatable SPE methods.

Description	Weight/Volume	Pkg	Part No.
Extraction of Acidic, Basic and Neutral Compounds from Aqueous or Organic Matrix	100mg/3mL	50	**N9306602**
Pre-Concentration of Hydrophobic Compounds from Aqueous Matrix	200mg/3mL	50	**N9306595**
Pre-Concentration of Hydrophobic Compounds from Aqueous Matrix	200mg/6mL	50	**N9306594**
Extraction of Hydrophobic Compounds from Aqueous Matrix	500mg/3mL	50	**N9306597**
Pre-Concentration of Hydrophilic Compounds	500mg/3mL	50	**N9306599**
Removal of Polar Compounds from Aqueous and Organic Matrix	500mg/3mL	50	**N9306601**
Extraction of Carboxylic Acids and Strong Bases from Aqueous Matrix	500mg/6mL	30	**N9306603**
Extraction of Hydrophobic Compounds from Aqueous Matrix	500mg/6mL	30	**N9306596**
Extraction of Weak Bases from Aqueous Matrix	500mg/6mL	30	**N9306604**
Pre-Concentration of Hydrophilic Compounds	500mg/6mL	30	**N9306598**
Removal of Polar Compounds from Aqueous and Organic Matrix	500mg/6mL	30	**N9306600**

SPE Application Packs

Ideal for extraction of known entities from a variety of matrices, our packs are expertly tailored to meet your application needs and are designed to support major EPA methods and applications.

Description	Weight/Volume	Pkg	Part No.
Extraction of PAH from Soil and Oil	1.5g/6mL	30	**N9306609**
Extraction of PAH from Soil and Oil (Glass Straight Column)	1.5g/6mL	30	**N9306610**
Extraction of PAH from Water Containing Humic Acids	1.5g/6mL	30	**N9306608**
Extraction of PCB from Oil	1g/3mL	50	**N9306616**
Extraction of Bisphenol A from Aqueous Matrix	1g/6mL	30	**N9306613**
Extraction of Oil and Grease from Aqueous Matrix-EPA 1664	1g/6mL	30	**N9306611**
Extraction of PCB from Oil	1g/6mL	30	**N9306617**
Extraction of SVOC from Water-EPA 525	1g/6mL	30	**N9306618**
Extraction of Basic Drugs from Biological Fluids	200mg/3mL	50	**N9306605**
Extraction of PAH from Water or Soil	4g/6mL	30	**N9306606**
Extraction of PAH from Water or Soil (Glass Straight Column)	4g/6mL	30	**N9306607**
Extraction of Oil and Grease from Aqueous Matrix-EPA 1664	500mg/3mL	50	**N9306612**
Extraction of Pesticides and Herbicides from Aqueous Matrix	500mg/6mL	30	**N9306614**
Extraction of Steroids from Biological Fluids	500mg/6mL	30	**N9306615**

Complete Consistency. Complete Confidence.

Weight/Volume	Pkg	Part No.
SPE Supra-Clean Cyano (CN-S) Column		
500mg/3mL	50	**N9306645**
500mg/6mL	30	**N9306644**
SPE Supra-Clean Florisil (FL-S) Column		
1g/6mL	30	**N9306413**
200mg/3mL	50	**N9306511**
2g/15mL	20	**N9306514**
2g/25mL	20	**N9306515**
2g/6mL	20	**N9306513**
500mg/3mL	50	**N9306512**
500mg/6mL	30	**N9306494**
SPE Supra-Clean Florisil (FL-S) Pesticide Grade Column		
1g/6mL	30	**N9306436**
200mg/3mL	50	**N9306516**
2g/15mL	20	**N9306443**
2g/25mL	20	**N9306447**
2g/6mL	30	**N9306470**
500mg/3mL	50	**N9306400**
500mg/6mL	30	**N9306517**
SPE Supra-Clean Amino (NH2-S) Column		
100mg/1mL	100	**N9306410**
100mg/3mL	50	**N9306529**
200mg/3mL	50	**N9306530**
500mg/3mL	50	**N9306414**
500mg/6mL	30	**N9306531**
50mg/1mL	50	**N9306528**
SPE Supra-Clean Polyamine (P6) Column		
500mg/3mL	50	**N9306518**
500mg/6mL	30	**N9306434**
SPE Supra-Clean Silica (SI-S) Column		
100mg/3mL	50	**N9306532**
1g/6mL	30	**N9306404**
200mg/3mL	50	**N9306444**
2g/15mL	20	**N9306534**
2g/25mL	20	**N9306535**
2g/6mL	20	**N9306533**
500mg/3mL	50	**N9306402**
500mg/6mL	30	**N9306466**
SPE Supra-Clean 300Å C4 Column		
100mg/1mL	100	**N9306591**
100mg/3mL	50	**N9306592**
200mg/3mL	50	**N9306593**
50mg/1mL	50	**N9306590**

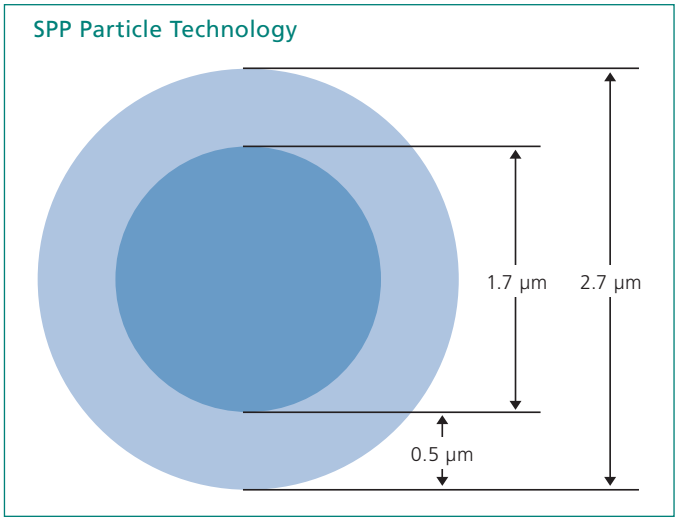
Weight/Volume	Pkg	Part No.
SPE Supra-Clean C18 Column		
100mg/1mL	100	**N9306478**
100mg/3mL	50	**N9306523**
1g/6mL	30	**N9306422**
200mg/3mL	50	**N9306462**
2g/15mL	20	**N9306479**
2g/25mL	20	**N9306475**
2g/6mL	30	**N9306430**
500mg/3mL	50	**N9306438**
500mg/6mL	30	**N9306448**
50mg/1mL	50	**N9306476**
200mg/6mL	30	**N9306634**
500mg/6mL	30	**N9306640***
500mg/3mL	50	**N9306642***
SPE Supra-Clean LCC Column		
500mg/3mL	50	**N9306643**
500mg/6mL	30	**N9306641**
SPE Supra-Clean Phenyl (PH-S) Column		
100mg/1mL	100	**N9306524**
100mg/3mL	50	**N9306525**
1g/6mL	30	**N9306527**
200mg/3mL	50	**N9306490**
500mg/3mL	50	**N9306421**
500mg/6mL	30	**N9306526**
50mg/1mL	50	**N9306401**
SPE Supra-Clean REC18 Column (full accessible surface)		
100mg/1mL	100	**N9306520**
100mg/3mL	50	**N9306455**
1g/6mL	30	**N9306491**
200mg/3mL	50	**N9306521**
500mg/3mL	50	**N9306522**
500mg/6mL	30	**N9306457**
50mg/1mL	50	**N9306519**
200mg/1mL	30	**N9306633**
SPE Supra-Clean Strong Anion Exchange (SAX) Column		
100mg/1mL	100	**N9306471**
100mg/3mL	50	**N9306554**
200mg/3mL	50	**N9306482**
500mg/3mL	50	**N9306555**
500mg/6mL	30	**N9306556**
50mg/1mL	50	**N9306553**

* No end-capping

Weight/Volume	Pkg	Part No.
SPE Supra-Clean Strong Cation Exchange (SCX) Column		
100mg/1mL	100	**N9306432**
100mg/3mL	50	**N9306537**
200mg/3mL	50	**N9306538**
500mg/3mL	50	**N9306539**
500mg/6mL	30	**N9306540**
50mg/1mL	50	**N9306536**
SPE Supra-Clean Weak Cation Exchange (WCX) Column		
100mg/1mL	100	**N9306545**
100mg/3mL	50	**N9306546**
200mg/3mL	50	**N9306547**
500mg/3mL	50	**N9306420**
500mg/6mL	30	**N9306407**
50mg/1mL	50	**N9306544**
SPE Supra-Clean Mixed-Mode (MM1, MM2, MM3) Column		
100mg/1mL	100	**N9306542 (MM1)**
100mg/3mL	50	**N9306419 (MM1)**
200mg/3mL	50	**N9306543 (MM1)**
500mg/3mL	50	**N9306481 (MM1)**
500mg/6mL	30	**N9306416 (MM1)**
50mg/1mL	50	**N9306541 (MM1)**
100mg/1mL	100	**N9306549 (MM2)**
100mg/3mL	50	**N9306550 (MM2)**
200mg/3mL	50	**N9306551 (MM2)**
500mg/3mL	50	**N9306411 (MM2)**
500mg/6mL	30	**N9306552 (MM2)**
50mg/1mL	50	**N9306548 (MM2)**
500mg/6mL	30	**N9306649 (MM3)**

Weight/Volume	Pkg	Part No.
SPE Supra-Poly Extreme Capacity 1500 m^2/g (XC) Column		
100mg/1mL	50	**N9306403**
100mg/3mL	50	**N9306440**
1g/15mL	20	**N9306503**
200mg/3mL	50	**N9306428**
30mg/1mL	50	**N9306441**
500mg/6mL	30	**N9306405**
50mg/1mL	50	**N9306500**
60mg/1mL	50	**N9306501**
60mg/3mL	50	**N9306502**
200mg/6mL	30	**N9306635**
SPE Supra-Poly Extra Wide Particle 1200 m^2/g (XWP) Column		
100mg/1mL	50	**N9306506**
100mg/3mL	50	**N9306508**
1g/15mL	20	**N9306510**
200mg/3mL	50	**N9306509**
30mg/1mL	50	**N9306504**
500mg/6mL	30	**N9306418**
50mg/1mL	50	**N9306427**
60mg/1mL	50	**N9306505**
60mg/3mL	50	**N9306507**
SPE Supra-Poly ATH, ATL, AEV Polymer Column		
200mg/6mL	30	**N9306636 (ATH)**
200mg/3mL	50	**N9306638 (ATH)**
100mg/3mL	50	**N9306646 (ATH)**
200mg/6mL	30	**N9306637 (ATL)**
200mg/3mL	50	**N9306639 (ATL)**
100mg/3mL	50	**N9306647 (ATL)**
100mg/3mL	50	**N9306648 (AEV)**
SPE Supra-Clean Silica (SI-S) Cartridge (full accessible surface)		
1300mg	50	**N9306586**
300mg	50	**N9306584**
700mg	50	**N9306585**
SPE Supra-Clean C18 Cartridge (full accessible surface)		
1690mg	50	**N9306589**
390mg	50	**N9306587**
910mg	50	**N9306588**

INNOVATION TO THE CORE



Smaller in size and innovative in design, superficially porous particles are made by fusing a porous silica layer to a solid inner core.

Brownlee SPP HPLC and UHPLC Column Solutions

Say goodbye to the limitations of traditional columns and experience greater speed, lasting durability and better results from your Liquid Chromatography instrument.

Brownlee Superficially Porous Particle (SPP) columns produce sharper peaks and faster separation results. These results are possible due to their breakthrough particle design and size. Brownlee SPP columns use 2.7 µm particles comprised of a thin outer shell of high-quality porous silica fused to a solid inner core. This advanced design allows for a shorter diffusion path, reducing the time solute molecules spend inside the particles while passing through the stationary phase.

Brownlee SPP Phases and Applications

UHPLC Phases*	PoreSize (Å)	Coverage (µmol/m^2)	pH Range	Temp Limit (°C)	Applications	Chromatographic Properties
C18	90	3.5	2 to 9	60	General Purpose Octadecyl phase for reversed phase separations.	A high-purity column that exhibits excellent peak shape for a wide range of compounds.
C8	90	3.7	2 to 9	60	General Purpose Octyl phase for reversed phase separations when less retention than a C18 is desired.	High purity reversed phase packing that exhibits excellent peak shape for a wide range of compounds.
HILIC**	90	N/A	2 to 8	60	General purpose bare silica column for normal phase and HILIC applications.	High purity silica substrate.
Peptide ES-C18**	160	2.0	1 to 8	90	Sterically protected ligand (isobutyl - side chains), results in an extra stable bonded phase at low pH where most peptide separations are performed.	The 160 Angstrom pore size was specially chosen for the molecular weight range of peptides. The ligand was chosen due to its sterically protected bonding technology that inhibits acid hydrolysis of the siloxane bonds, even under extremes of high temperature and low pH.
PFP (pentafluoro-phenylpropyl)	90	3.6	2 to 8	60	Highly retentive and selective for protonated basic analytes and molecules containing aromatic moities.	End-capped pentafluorophenyl with a propyl spacer.
PhenylHexyl	90	3.0	2 to 9	60	Alternative selectivity to alkyl bonded phases, recommended for aromatic groups. Compatible with highly aqueous mobile phases to facilitate the retention and separation of polar compounds.	Base-deactivated for good peak shapes when separating basic compounds. Hexyl spacer provides optimal flexibility for phenyl ring to facilitate π-π interactions with solutes.
RP-Amide	90	3.0	2 to 9	60	Excellent phase for significantly increasing the retention and selectivity of acids, for symmetrical peak shapes of bases, zwitterions and other polar compounds.	Base-deactivated phase with a polar group within the alkyl bonded phase. Provides unique selectivity and a high level of base deactivation while reducing or eliminating the need for mobile phase additives.

* Maximum pressure 9,000 p.s.i. for all columns. All particle sizes are 2.7 µm.
**Not end-capped. All others end-capped.

THE TECHNOLOGY YOU NEED TO SEPARATE FROM THE PACK

Brownlee Instrument Optimizaton Kits

Brownlee SPP columns can be used to enhance the performance of virtually any PerkinElmer, Agilent, or other manufacturer's HPLC or UHPLC system. Our SPP columns deliver resolution and speed similar to sub-2 µm UHPLC columns, but generate only 40% to 50% of the backpressure. By combining high efficiency and lower backpressure, Brownlee SPP columns make it possible to get "UHPLC-like" performance from your HPLC system.

PerkinElmer has created, tested and made the following PerkinElmer and Agilent optimization kits available. Our OneSource Service Engineers are certified on all leading manufacturer instruments and can help optimize your instrument's performance.

Benefits:

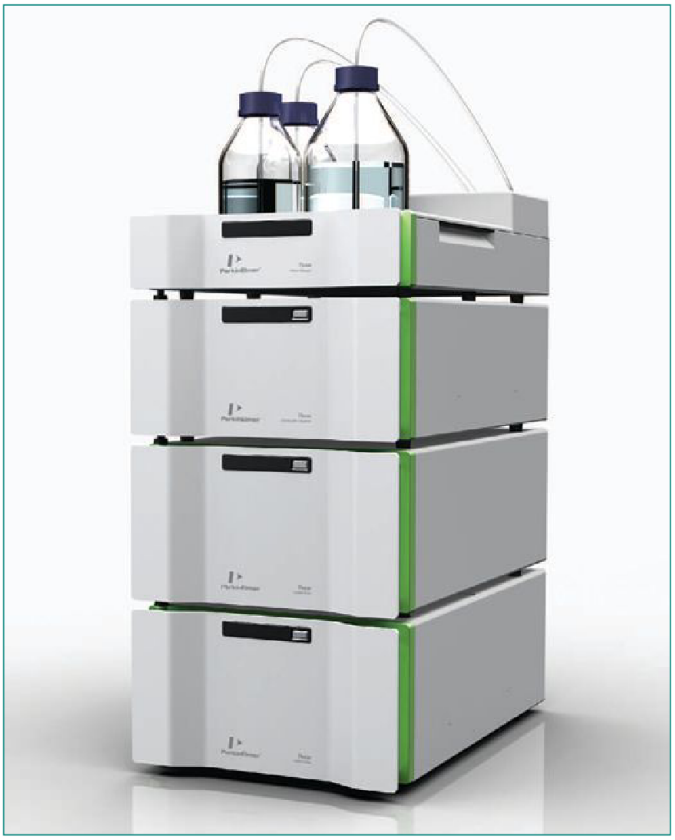
- Generate UHPLC like separations on your standard HPLC system
- Achieve ultra fast performance and efficiency on your UHPLC system
- Run samples in a fraction of the time
- Experience significant savings through faster method development, column longevity and use of less mobile phase solvent

PerkinElmer Optimization Kits

Description	Part No.
Series 200 LC or Flexar UHPLC systems with UV/Vis detector	**N2920191**
Series 200 LC or Flexar UHPLC systems with PDA detector	**N2920193**

Agilent Optimization Kits

Description	Part No.
Extra column volume (ECV) - STD Autosampler and Variable Wavelength Detector (VWD) Optimization Kit	**ZECVSTDVWD**
ECV - STD Well Plate Autosampler and Diode Array Detector/Multiple Wave-length Detector (DAD/MWD)	**ZECVSTDWPDADMWD**
ECV - STD Autosampler and DAD/MWD	**ZECVSTDDADMWD**
ECV - STD Well Plate Autosampler and VWD	**ZECVSTDWPVWD**
Ultra Low ECV - STD Autosampler and VWD	**ZULECVSTDVWD**
Ultra Low ECV - STD Well Plate Autosampler and DAD/MWD	**ZULECVSTDWPDADMWD**
Ultra Low ECV - STD Autosampler and DAD/MWD	**ZULECVSTDDADMWD**
Ultra Low ECV - STD Well Plate Autosampler and VWD	**ZULECVSTDWPVWD**



Performance For Every Phase

Brownlee SPP 2.7 µm Columns

Diameter/Length	Part No.
C18	
2.1 x 20 mm	**N9308400**
2.1 x 30 mm	**N9308401**
2.1 x 50 mm	**N9308402**
2.1 x 75 mm	**N9308403**
2.1 x 100 mm	**N9308404**
2.1 x 150 mm	**N9308405**
3.0 x 20 mm	**N9308406**
3.0 x 30 mm	**N9308407**
3.0 x 50 mm	**N9308408**
3.0 x 75 mm	**N9308409**
3.0 x 100 mm	**N9308410**
3.0 x 150 mm	**N9308411**
4.6 x 20 mm	**N9308412**
4.6 x 30 mm	**N9308413**
4.6 x 50 mm	**N9308414**
4.6 x 75 mm	**N9308415**
4.6 x 100 mm	**N9308416**
4.6 X 150 mm	**N9308417**
Peptide ES-C18	
2.1 x 30 mm	**N9308450**
2.1 x 50 mm	**N9308451**
2.1 x 75 mm	**N9308452**
2.1 x 100 mm	**N9308453**
2.1 x 150 mm	**N9308454**
3.0 x 30 mm	**N9308455**
3.0 x 50 mm	**N9308456**
3.0 x 75 mm	**N9308457**
3.0 x 100 mm	**N9308458**
3.0 x 150 mm	**N9308459**
4.6 x 30 mm	**N9308460**
4.6 x 50 mm	**N9308461**
4.6 x 75 mm	**N9308462**
4.6 x 100 mm	**N9308463**
4.6 x 150 mm	**N9308464**
C8	
2.1 x 20 mm	**N9308418**
2.1 x 30 mm	**N9308419**
2.1 x 50 mm	**N9308420**
2.1 x 75 mm	**N9308421**
2.1 x 100 mm	**N9308422**
2.1 x 150 mm	**N9308423**
3.0 x 30 mm	**N9308424**
3.0 x 50 mm	**N9308425**
3.0 x 75 mm	**N9308426**
3.0 x 100 mm	**N9308427**
3.0 x 150 mm	**N9308428**
4.6 x 20 mm	**N9308429**

Diameter/Length	Part No.
4.6 x 30 mm	**N9308430**
4.6 x 50 mm	**N9308431**
4.6 x 75 mm	**N9308432**
4.6 x 100 mm	**N9308433**
4.6 x 150 mm	**N9308434**
PFP	
2.1 x 20 mm	**N9308465**
2.1 x 30 mm	**N9308466**
2.1 x 50 mm	**N9308467**
2.1 x 75 mm	**N9308468**
2.1 x 100 mm	**N9308469**
2.1 x 150 mm	**N9308470**
3.0 x 30 mm	**N9308471**
3.0 x 50 mm	**N9308472**
3.0 x 75 mm	**N9308473**
3.0 x 100 mm	**N9308474**
3.0 x 150 mm	**N9308475**
4.6 x 30 mm	**N9308476**
4.6 x 50 mm	**N9308477**
4.6 x 75 mm	**N9308478**
4.6 x 100 mm	**N9308479**
4.6 x 150 mm	**N9308480**
HILIC	
2.1 x 30 mm	**N9308435**
2.1 x 50 mm	**N9308436**
2.1 x 75 mm	**N9308437**
2.1 x 100 mm	**N9308438**
2.1 x 150 mm	**N9308439**
3.0 x 30 mm	**N9308440**
3.0 x 50 mm	**N9308441**
3.0 x 75 mm	**N9308442**
3.0 x 100 mm	**N9308443**
3.0 x 150 mm	**N9308444**
4.6 x 30 mm	**N9308445**
4.6 x 50 mm	**N9308446**
4.6 x 75 mm	**N9308447**
4.6 x 100 mm	**N9308448**
4.6 x 150 mm	**N9308449**
Phenyl-Hexyl	
2.1 x 20 mm	**N9308481**
2.1 x 30 mm	**N9308482**
2.1 x 50 mm	**N9308483**
2.1 x 75 mm	**N9308484**
2.1 x 100 mm	**N9308485**
2.1 x 150 mm	**N9308486**
3.0 x 30 mm	**N9308487**
3.0 x 50 mm	**N9308488**
3.0 x 75 mm	**N9308489**
3.0 x 100 mm	**N9308490**
3.0 x 150 mm	**N9308491**
4.6 x 30 mm	**N9308492**

Diameter/Length	Part No.
4.6 x 50 mm	**N9308493**
4.6 x 75 mm	**N9308494**
4.6 x 100 mm	**N9308495**
4.6 x 150 mm	**N9308496**
RP-Amide	
2.1 x 20 mm	**N9308497**
2.1 x 30 mm	**N9308498**
2.1 x 50 mm	**N9308499**
2.1 x 75 mm	**N9308500**
2.1 x 100 mm	**N9308501**
2.1 x 150 mm	**N9308502**
3.0 x 30 mm	**N9308503**
3.0 x 50 mm	**N9308504**
3.0 x 75 mm	**N9308505**
3.0 x 100 mm	**N9308506**
3.0 x 150 mm	**N9308507**
4.6 x 30 mm	**N9308508**
4.6 x 50 mm	**N9308509**
4.6 x 75 mm	**N9308510**
4.6 x 100 mm	**N9308511**
4.6 x 150 mm	**N9308512**
C18 Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308513**
3.0 x 5 mm, 3 pk	**N9308514**
4.6 x 5 mm, 3 pk	**N9308515**
C8 Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308522**
3.0 x 5 mm, 3 pk	**N9308523**
4.6 x 5 mm, 3 pk	**N9308524**
HILIC Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308525**
3.0 x 5 mm, 3 pk	**N9308526**
4.6 x 5 mm, 3 pk	**N9308527**
Peptide ES-C18 Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308528**
3.0 x 5 mm, 3 pk	**N9308529**
4.6 x 5 mm, 3 pk	**N9308530**
PFP Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308531**
3.0 x 5 mm, 3 pk	**N9308532**
4.6 x 5 mm, 3 pk	**N9308533**
Phenyl-Hexyl Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308519**
3.0 x 5 mm, 3 pk	**N9308520**
4.6 x 5 mm, 3 pk	**N9308521**
RP-Amide Guard Column Packs	
2.1 x 5 mm, 3 pk	**N9308516**
3.0 x 5 mm, 3 pk	**N9308517**
4.6 x 5 mm, 3 pk	**N9308518**
Guard Column Holder	
	N9308534

Stainless Steel Sample Loops

For Flexar FX UHPLC Autosampler (up to 18,000 psi operation)

Stainless Steel loops required for use with FX-10 or FX-15 systems operating above 6,200 psi.

High Pressure Stainless Steel Sample Loops

Description	Size	Part No.
Sample Loop, SS	2 µL	**N2936071**
Sample Loop, SS	5 µL	**N2936056**
Sample Loop, SS	10 µL	**N2936057**
Sample Loop, SS	20 µL	**N2936058**
Sample Loop, SS	50 µL	**N2936059**
Sample Loop, SS	100 µL	**N2936060**
Sample Loop, SS	200 µL	**N2936061**
Sample Loop, SS	500 µL	**N2936062**
Sample Loop, SS	1 mL	**N2936063**
Sample Loop, SS	2 mL	**N2936064**
Sample Loop, SS	5 mL	**N2936065**

Stainless Steel Sample Loops

	Model 7125/7010	Model 7725	Model 8125
Size	Part No.	Part No.	Part No.
10 µL	**09904938**	**N9306024**	
50 µL	**09904940**	**N9306026**	
100 µL	**09904942**	**N9306027**	**41000013**
200 µL	**09904818**	**N9306028**	**09904818**
5 mL			**N9306032**

PEEK Sample Loops For Series 200/225 and Flexar LC Autosamplers (up to 6,200 psi operation)

These loops are compatible with all standard Flexar autosamplers as well as Series 225 autosamplers. PEEK loops cannot be used above 6,200 psi operation therefore are NOT compatible eith standard Flexar autosamplers. Stainless steel loops required for use wirh FX-10 or FX-15 UHPLC systems operating above 6,200 psi.

Description	Size	Part No.
PEEK Sample Loop	2 µL	**N2936072**
PEEK Sample Loop	5 µL	**N2936073**
PEEK Sample Loop	10 µL	**N2936074**
PEEK Sample Loop	20 µL	**N2936075**
PEEK Sample Loop	50 µL	**N2936076**
PEEK Sample Loop	100 µL	**N2936077**
PEEK Sample Loop	250 µL	**N2936078**
PEEK Sample Loop	500 µL	**N2936079**
PEEK Sample Loop	1 mL	**N2936080**
PEEK Sample Loop	2 mL	**N2936081**
PEEK Sample Loop	5 mL	**N2936082**

Sample loops are made from PEEK tubing and fittings. PEEK (poly-ether-ether-ketone) is a mechanically-strong, chemically-inert polymer, ideal for HPLC applications where metal surfaces may interact with the mobile phase or sample component. Each sample loop is supplied with two PEEK hex-head nuts and ferrules. These fittings grip the tubing in two locations for a more reliable connection.

Description	Size	Part No.
PEEK Sample Loop	20 µL	**N9306035**
PEEK Sample Loop	50 µL	**N9306036**
PEEK Sample Loop	200 µL	**N9306038**
Internal Loop (PEEK and Ceramic)	2 µL	**N9306022**

Tubing Accessories

Clean-Cut™ tubing tool is designed to cut Teflon®, Tefzel® and polymers in general but, in particular, PEEK tubing. A unique safety locking mechanism secures the blade when not in use.

Description	Part No.
Clean-Cut Tubing Cutter	**ED020015**
Clean-Cut Tubing Replacement Blade	**ED020016**
Cable/Tubing clip (U-Shaped)	**NX598006**
Stick-on Tubing Organizer (Gray Plastic)	**NX598006**

PEEK Tubing

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting.

Use PEEK with virtually any organic or inorganic liquid. PEEK tubing is not affected by halide salts, high-strength buffers or other aggressive mobile phases that degrade stainless steel.

Description	Length	Part No.
1/16 in O.D. x 0.007 in I.D.	5 ft	**N9302678**
1/16 in O.D. x 0.010 in I.D.	5 ft	**N9302650**
1/16 in O.D. x 0.004 in I.D. (Black)	50 cm	**N2916200**
1/16 in O.D. x 0.005 in I.D. (Red)	50 cm	**N2916059**
Connector Tubing, Flexar/FX Mixer to Injector, SS		**N2916211**
Connector Tubing, Flexar ISO/Binary/ Quaternary Pump to Autosampler, SS		**N2916210**

Stainless Steel Tubing

Features and Benefits

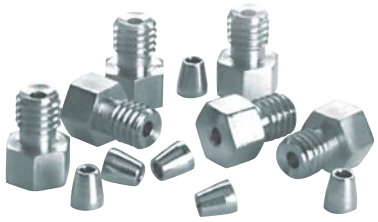
- Pre-cut and mirror-polished in 316 stainless steel

Description	Length	Part No.
1/16 in O.D. x 0.015 in I.D.	6 ft	**00873036**
1/16 in O.D. x 0.007 in I.D.	3 ft	**02540838**
1/16 in O.D. x 0.005 I.D.	2 ft	**02507060**

High-performance Fingertight® fittings for the most demanding applications

This PEEK Fingertight® fitting is the toughest with regard to chemical resistance and pressure. This high-performance Fingertight® fitting is recommended for the most demanding applications and will resist pressures up to 6,000 psi (400 bar). Made from a single piece of PEEK, the size permits tightening without tools.

Description	Part No.
PEEK One-Piece Fingertight® Fitting	**ED020005**



Fittings, Nuts and Ferrules

Stainless steel nuts are available in both Parker-Hannifin and Rheodyne™ formats. The nuts are used to connect 1/16 inch o.d. stainless steel tubing and feature a 10-32 thread size. PerkinElmer also offers select SSI fittings for 1/16 inch o.d. tubing in 1/4-28 thread size.

Stainless Steel Fittings

Description	Part No.
Kel-F Reverse Ferrule, 1/8 inch*	**09903771**
Kel-F Ferrule, 1/16 inch*	**09920382**
Tefzel Nut, 1/16 inch*	**09920381**
Parker-Hannifin Ferrule, 1/16 inch	**00873032**
Parker-Hannifin Nut, 1/16 inch	**09903980**
Parker-Hannifin Nut & Ferrule Kit, 1/16 inch Includes: 6 nuts and 6 ferrules	**00890945**
Parker-Hannifin Zero-Dead-Volume Union with nuts and ferrules	**09903289**
Parker-Hannifin Medium-Stem SS Nut	**N2916202**
Rheodyne™ Ferrule, 1/16 inch	**09904947**
Rheodyne™ Nut, 1/16 inch long body	**09904974**
Rheodyne™ Nut, 1/16 inch short body	**09904956**
Rheodyne™ Nut and Ferrule Kit, 1/16 inch Includes: 6 ferrules, 3 short nuts and 3 long nuts	**02540274**
Tefzel Nut (for Reverse Ferrule), 1/8 inch*	**N2601189**
Tefzel Nut, 1/16 inch*	**09920381**
Valco Ferrule	**09903891**
OptiTech Reusable Nut/Ferrule for UHPLC (fingertight to 15K psi)	**N9306301**
OptiTechFerrule replacements for UHPLC (10 pack)	**N9306300**
UHPLC 1/16 inch Reusable Fitting	**N9307800**

* The Tefzel and Kel-F fittings above are only for low pressure use (under 400 psi).

ONE-PIECE, EASY-TO-USE

Fittings Kits

Recommended for users of a PerkinElmer Biocompatible LC system. Contains nuts, ferrules and unions.

Description	Part No.
Biocompatible Column Fittings for LC	**N9301001**

Fittings Kit for LC

The kit contains Rheodyne™ and SSI nuts and ferrules as well as Fingertight® II nuts and ferrules for toolless installation. Zero-dead-volume unions are also included. In addition you receive varying lengths of stainless steel tubing in 0.007 and 0.010 inch i.d.s, as well as 0.30 inch i.d Tefzel® tubing.

Description	Part No.
All-in-one Fittings Kit	**N9301002**

Operation Kit

Recommended for purchasers of their first LC. Includes tubing, union, fittings, syringe, basic LC book and test mix.

Description	Part No.
Operation Kit	**00890873**

ENHANCE PUMP PERFORMANCE

Vacuum Degassing Kits

Using a solvent degassing system will extend the performance of your pump. PerkinElmer offers both vacuum degassing systems that can handle all your degassing requirements.

On-Line Vacuum Degasser Kit

This is a low-volume, high efficiency, on-line module for the removal of dissolved gasses from HPLC solvents. The vacuum degasser is available in 3 and 5 channel models to support isocratic, binary and quaternary pumps as well as degassing of autosampler flush solvent.

Description	Part No.
3-channel Vacuum Degassing Package. Includes: a Vacuum Degasser, one 1 L Bottle with Cap, one 2 L Bottle with Cap, one Organizer Tray and Accessory	**N2600571**
5-channel Vacuum Degassing Package. Includes: a Vacuum Degasser, two 1 L Bottle with Caps, two 2 L Bottles with Caps, Solvent Tray and Organizer	**N2600570**
Binary Bottle Cap Kit. Includes: two Caps, Tubing, Fittings and Labels required for two Solvent Bottles	**N2600522**
Quatenary Bottle Cap Kit. Includes: four Caps, Tubing, Fittings and Labels required for four Solvent Bottles	**N2600523**

Liquid Chromatography Laboratory Bottle Kits

Contents	Part No.
1x5 Liter Bottle with Cap and Teflon Insert, 2 Meters PTFE ⅛" Tubing and 1x10 µm SS Solvent Frit	**N2601610**
1x2 Liter Bottle with Cap and Teflon Insert 1 Meter PTFE ⅛" Tubing and 1x10 µm SS Solvent Frit	**N2601611**
1x1 Liter Bottle with Cap and Teflon Insert 1 Meter PTFE ⅛" Tubing and 1x10 µm SS Solvent Frit	**N2601612**
1x0.5 Liter Bottle with Cap and Teflon Insert 1 Meter PTFE 1/16" Tubing and 1x40 µm SS Solvent Frit	**N2601613**
1 Cap with Teflon Insert 1 Meter PTFE ⅛" Tubing and 1x10 µm SS Solvent Frit	**N2601614**
1 Cap with Teflon Insert 1 Meter PTFE 1/16" Tubing and 1x40 µm SS Solvent Frit	**N2601615**
1x0.5 Liter Bottle with Cap and Dual Teflon Insert 2 pcs of 2 Meter PTFE ⅛" Tubing (Piston Wash Function)	**N2601616**
1 Cap with Dual Teflon Insert 2 pcs of 2 Meter PTFE ⅛" Tubing and 1x10 µm SS Solvent Frit (Piston Wash Function)	**N2601617**

Check Valves

HPLC check valves allow solvent to flow in only the desired direction. Check valves are easy to install with the torque wrench kit. For all PerkinElmer pumps an intermediate check valve is required. The input check valve, which is identical, should be ordered. The check valves of the biocompatible pumps differ from those of the stainless steel pumps in that all portions that contact fluid are composed of titanium.

	Inlet/Intermediate Check Valve	Outlet Check Valve
Type	Part No.	Part No.
Standard Stainless Steel	**02540177**	**02540197**
Micropump	**02540177**	**02540197**
Biocompatible Titanium	**N2600226**	**N2600192**
FX-15 Check Valves	**N2911220**	**N2911220**

Maintenance Kits and Tools

Description	Part No.
Biocompatible Piston Seal Replacement Kit Includes: Four Seals, Backup Rings, and O-rings	**N2910385**
Check Valve Torque Wrench	**02540871**
Diaphragm for Pulse Compensator	**N2601316**
FX-15 UHPLC Pump Accessories Replacement 0.5 µm Filter Frits for FX-15 (4-pack)	**N2911224**
High pressure FX-15 Piston Seal Kit	**N2911221**
Standard Piston Seal Replacement Kit for Series 200 and Flexar Pump Includes: Four Seals, Backup Rings, and O-rings	**N2910383**
Insertion Tool	**N2601503**
Micropump Piston Seal Replacement Kit for Series 275 and FX-10 pump	**N2910384**
Piston Wash Bottle Kit for FX-15	**N2601616**
Pulse Compensator Repair Kit Includes: Diaphragm, Elastomer Plug, and Seal	**N2600313**
Seal Removal Tool	**N2601295**
Series 200 Bio LC Pump Maintenance Kit Includes: Fuses, Seals, O-rings, and Seal Tools	**N2910346**
Series 200 Pump Maintenance Kit Includes: Fuses, Seals, O-rings, and Seal Tools	**N2910345**

Replacement Vacuum Degasser Bottles

Description	Part No.
1 L Glass Bottle	**N2600497**
2 L Glass Bottle	**N2600498**

Solvent Sparger and Solvent Filters

Solvent filters remove unwanted particulate matter from the LC instrument. Spargers connect directly to the solvent delivery line and are easily removed for cleaning. The scavenger column is ideal for eliminating particulate material from solvents.

Solvent Filters

Solvent Spargers, Filters and Scavengers

Description	Size	Part No.
Solvent Reservoir Sparger		
Stainless Steel	10 µm	**09903610**
Titanium	10 µm	**N2600070**
Stainless Steel	40 µm	**09903615**
Titanium	40 µm	**N2600089**
Solvent Filters/Scavengers		
In-Line Solvent Filter System		**09903606**
In-Line Solvent Filter Replacement Kit		**02540311**
In-Line Solvent Filter System, Titanium		**N2600259**
Replacement 2 µm Titanium Filter Element		**N2601477**
Replacement Seal for In-Line Solvent Filter		**N2601262**
3 cm Scavenger Cartridge Holder		**02580178**
Spheri-5 C18 10 µm Scavenger Column (5 pack)		**02580202**
LC System Accessories		
Solvent waste cup		**N2916019**
Drain Cup		**N2916085**
90° Elbow Adapter, ¼" ID HDPP		**09220102**
Tubing Clip (U-shaped, Polypropylene)		**NX598006**
Polypro Elbow Barbs		**09220102**
Large ID (11 mm) Silicone Tubing (5 ft)		**N2916016**
Manual Injector Bracket (Magnetic Clip-on)		**N2931275**

Static Mixers

Static mixers are used to facilitate complete mobile phase blending, resulting in improved retention performance. The mixer will most typically be used where high-pressure blending of two pump outputs is required. Mixers incorporate a highly efficient crossflow shearing mechanism which produces vortex sheer mixing over a wide flow range.

Mixers

Mixing Head

UHPLC Static Mixers (up to 18,000 psi)

Description	Size	Part No.
In-Line High Pressure Mixer Assembly, SS	50 µL	**N2911200**
In-Line High Pressure Mixer Assembly, SS	150 µL	**N2911201**
In-Line High Pressure Mixer Assembly, SS	250 µL	**N2911202**
In-Line High Pressure Mixer Assembly, SS	350 µL	**N2911205**
In-Line High Pressure Mixer Assembly, SS	500 µL	**N2911203**
Binary T-Mixer, SS	10 µL	**N2911170**
Binary High Pressure T-Mixer, SS	50 uL	**N2911212**
HP Binary High Pressure T-Mixing, SS	150 µL	**N2911206**
Binary High Pressure T-Mixer, SS	350 uL	**N2911210**
Binary High Pressure T-Mixer, SS	500 uL	**N2911211**
T-connector, SS		**N2911127**

Analytical Static Mixers (up to 6,200 psi)

Description	Size	Part No.
Binary T Mixer	10 µL	**N2911170**
Binary T Mixer	25 µL	**N2911171**
In-Line Mixer Assembly	150 µL	**N2911173**
In-Line Mixer Assembly	500 µL	**N2911172**
Binary T Mixer Cartridge	10 µL	**N2911174**
Binary T Mixer Cartridge	25 µL	**N2911175**
Binary T Mixer Cartridge	50 µL	**N2911176**
Binary T Mixer Cartridge	150 µL	**N2911177**
Binary T Mixer Cartridge	250 µL	**N2911178**

Dynamic Mixer

Used to facilitate complete mobile phase blending, resulting in improved retention performance. The mixer will most typically be used as part of a Micro pump package — where high-pressure blending of 2 pump outputs is required. Three different volume mixing heads (75, 200 and 400 µL) are available.

Kit includes: Mixer Accessory, Stainless Steel "Tee" Fitting (N2911127), U.S. style AC Line Cord and 0.1 A Type T Fuse.

Description	Part No.
Dynamic Mixer Accessory (100–240 V)	**N2910520**

Mixing Heads

Size	Part No.
75 µL	**N2910521**
200 µL	**N2910522**
400 µL	**N2910523**

NEW

Flom Analytical Injection Valve

The Flom Analytical Injection Valve is a very reliable manual HPLC injection valve. It comes with a built in "Inject" contact closure connection output. A PEEK rotor seal is provided for excellent solvent/sample resistance and the fluid path is designed for minimal dispersion. This valve is available in either stainless steel or PEEK, depending on the application or need.

Description	Product No.
Flom Injection Valve Stainless Steel	**N9306073**
Flom Injection Valve PEEK	**N9306072**

Injector Valve Rotor Seals

For both Series 200 Autosampler and manual injectors.

For both the Rheodyne and Flom valves, rotor seals should be periodically replaced every 6 months to a year and are available in PEEK. For the Rheodyne valve, they are also available in Vespel. PEEK is more inert towards amines and other basic biomolecules/ pharmaceuticals, exhibiting less sample carryover. However, Vespel is somewhat more resilient than PEEK, providing somewhat better wear life.

Description	Product No.
Flom Rotor Seal PEEK	**N9306068**
Rheodyne 7725 Vespel Rotor Seal	**09904802**
Rheodyne 8125 Vespel Rotor Seal	**10070900**
Rheodyne 7725/9725 PEEK Rotor Seal	**N9306044**

Rheodyne™ 9725 PEEK Bio Injection Valve

Model 9725 is inert and well-suited to the chromatography of biological molecules, including applications with aggressive mobile phases. This valve is useful in all applications in which metal contact with the mobile phase and or sample should be avoided. This valve uses PEEK vent lines and a Teflon® rotor seal and can be operated in a pH range from 0 – 14.

Description	Product No.
9725 Injection Valve for Series 200 Autosampler	**N9306020**

Rheodyne™ 8125 Low-Dispersion Stainless Steel Injection Valve

Ideal for use in an LC/MS system, the model 8125 is designed for 1 and 2 mm microbore columns and can also be used with conventional analytical (3 to 5 mm) columns. Small flow passages produce low dispersion, maintaining the high mass sensitivity inherent in micro columns.

Description	Product No.
8125 Low-Dispersion Stainless Steel Injection Valve	**N9306021**

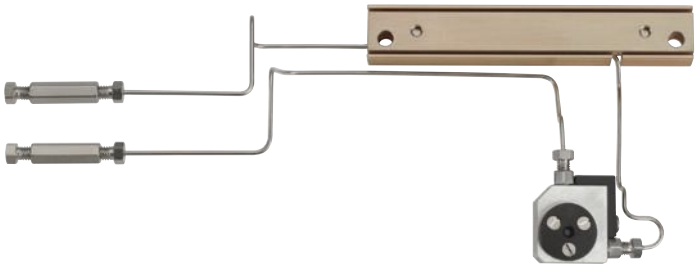
Rheodyne™ 7725 Analytical Injection Valve

Inject from 1 µL to 5 mL with high accuracy and precision, with the Rheodyne™ 7725 and 7725i valves.

Rheodyne™ 7725 and 7725i valves are versatile injectors and can use both partial-filling and complete-filling methods for loading the sample loop. Wide port angles of the 7725/7725i valve provide improved access to fittings. Sample loop with a 2 µL internal capacity is also available. In a clean system, the 7725/7725i typically can make more than 30,000 injections before requiring replacement of the rotor seal.

Description	Product No.
7725 Injection Valve for Series 200 Autosampler	**N9306019**
7725i Injection Valve with Internal Switch	**N9306017**

INTERCHANGEABLE FOR YOUR SAMPLE



Bio Conversion Kits

There are two kits available; one that contains all of the parts necessary to convert the Series 200 pump and Series 200 autosampler for Bio applications. The other contains all of the parts necessary to convert only the Series 200 Pump for Bio applications.

Description	Part No.
S200 Pump and S200 Autosampler Conversion Kit	**N2910035**
S200 Pump Conversion Kit	**N2910036**

Pump Seal Kits

Description	Part No.
High Pressure Piston Seal Replacement Kit Includes: Seals (4), Backup Rings and O-Rings	**N2910383**
Micropump Piston Seal Replacement Kit Includes: Seals and O-Rings	**N2910384**
Series 200 Pump Maintenance Kit Includes: Fuses, Seals, O-Rings and Seal Tools	**N2910345**

Detector Backpressure Regulator

The detector backpressure regulator is a device that is attached to the outlet of the detector to prevent outgassing in the flowcell, eliminating variations to the detector baseline.

Description	Material	Part No.
40 psi inline backpressure regulator		**N2925090**
2 – 5K psi variable backpressure regulator		**N2925091**
Backpressure Regulator Adjustable from 15 – 59 psi	Stainless Steel	**09907126**

Flexar UV/Vis, Series 200/785A UV/Vis, Flexar PDA and Series 200 EP

These flowcells provide the highest detection limits possible for your sample. The 6 mm pathlength flowcell has been optimized for lower-dispersion LC analysis and is the perfect choice when using narrowbore, 2.1 mm or microbore, 1 mm columns (see Figure 1). The 3 mm pathlength is the choice for semiprep LC to avoid detector saturation at high-solute concentrations.

UV/Vis, PDA, FL and LC-135/235 FLOWCELLS

Description	Size	Part No.
Flowcells for Flexar FX-UV/Vis UHPLC Detectors		
Flowcell	6 mm x 2.4 µL	**N2925090**
Flowcell Kit (includes flowcell & detector head plate w/ gasket)	6 mm x 2.4 µL	**N2920070**
Flowcells for Flexar FX-UV/Vis UHPLC Detectors		
Flowcell Kit (includes flowcell w/ heat exchanger and zdv unions)	10 mm x 15 µL	**N2920070**
Flowcell	10 mm x 15 µL	**N2920124**
Flowcell Assembly (w/ zdv unions)	6 mm x 2.4 µL	**29000544**
Prep Flowcell Assembly (w/ zdv unions)	3 mm x 1.7 µL	**29000545**
Flowcells for 785A UV/Vis Detectors		
Flowcell	8 mm x 12 µL	**29000542**
Flowcell Assembly (w/ heat exchanger and zdv unions)	8 mm x 12 µL	**N2920117**
Flowcells for Flexar FX-PDA UHPLC and Series 275 PDA Detectors		
Flowcell (dual-lensed)	6 mm x 2.4 µL	**N2920128**
Flowcells for Flexar and Series 200EP PDA Detectors		
Flowcell	10 mm x 15 µL	**N2920126**
Flowcell Assembly	10 mm x 15 µL	**N2920160**
Flowcells for Series 200 PDA Detectors		
Flowcell	10 mm x 12 µL	**N2922107**
Flowcell	4.5 mm x 5 µL	**N2922030**
FL 3 µL Flowcell w/ Assembly		**N2922211**
Flowcells for LC-135/235 PDA Detectors		
Flowcell Assembly (w/ heat exchanger)	10 mm x 8 µL	**N2350211**
Flowcell	10 mm x 8 µL	**N2350162**

FOR OUTSTANDING PERFORMANCE

UV/VIS Deuterium
Detector Lamp

Our extensive quality control and inspection process demands the very best quality sources. Choosing a PerkinElmer deuterium, tungsten or xenon source provides outstanding ultraviolet and true visible performance.

- Exceptional performance anywhere in the detector's 190 – 700 nm wavelength range
- Lamp changes are quick and easy due to a unique self-aligning lamp mount

UV/VIS Detector Lamps

Components	Part No.
Flexar Series/Series 200/785A UV/VIS Detector Lamps	
Deuterium Lamp	**N2920149**
Tungsten Lamp	**N2920146**
LC-295 UV/VIS Detector Lamps	
Deuterium Lamp	**02712266**

Refractive Index Detector Lamps

The Flexar Series/Series 200/200s Refractive Index, with its deflection-type design, allows sensitive detection of these compounds with low noise and drift characteristics.

Series 200/200a

Components	Part No.
Tungsten Lamps	**02712273**

Series 200/200 EP
Photo Diode Array Detector Lamp

Photo Diode Array Detector Lamps

The Flexar Series/Series 200/200 EP Photo Diode Array Detector provides true UV/VIS detection and high resolution spectral data. The excellent signal-to-noise characteristics make it ideally suited for low-volume or low concentration samples.

Components	Part No.
Flexar/Series 200 EP	
Deuterium Lamp	**N2925030**
Tungsten Lamp	**N2922011**
Series 200	
Deuterium Lamp (Phase 2)	**N2922046**
Tungsten Lamp	**N2922011**
LC-135C/235	
Detector Lamp	**N2351285**

Fluorescence Detector Lamps

The major benefit afforded by fluorescence detection is the inherent high sensitivity of the technique coupled with outstanding specificity. The Series 200a Fluorescence Detector provides signal to noise ratio of >700:1 from trace analysis using a 150 W xenon source.

Components	Part No.
Flexar/Series 200/200a	
Xenon Lamp	**N2922082**
Flexar/Series 200/200a	
Xenon Lamp	**L2251157**
Festoon Lamp	**04969486**

Nitrogen Generators

PerkinElmer offers customers a new line of nitrogen generators to meet the growing need for cost effective and pure nitrogen.

Membrane Nitrogen Generators are designed to supply single or multiple LC/MS instruments with dry nitrogen at purities of 98% to 99.5%.

The generator can also be used for solvent evaporation as well as supplying dry nitrogen to analytical instruments.

Features and Benefits

- LC/MS grade purity enhances instrument performance
- Phthalate-free
- Recommended, certified, tested, and used by all major LC/MS instrument manufacturers
- Return on investment in 6 months to 2 years
- Minimal maintenance required

Applications

- LC/MS
- Solvent Evaporation
- Analytical instruments requiring nitrogen
- Thermal Analyzers

Low Flow NITROFLOW Lab

Features and Benefits

- Complete "Plug and Play" system recommended by all major LC/MS manufacturers
- 8,000 hours compressor warranty or two years
- Special design ensures quiet operation
- Dual oil-less air compressors

Components	Part No.
120 V	**N9306213**
230 V	**N9306214**

Product Specification	
Purity:	94.0 – 99.5%
Phthalate-free	
Hydrocarbon-free	
Flow Rates	10 – 50 lpm
Delivery pressure	8 bar
Ambient temperature	10 °C – 35 °C
Power consumption	1400 Watts
Noise level	<58 dB (A)
Electrical requirements	120 V / 60 Hz, 20 Amp Nema 5
Lab capacity at nominal conditions:	
Ambient temperature:	20 °C/ 68 °F
Ambient pressure:	1013 mbar(a).
Dimensions (net):	90 cm W x 31 cm D x 70 cm H
Weight (shipping)	127.4 kg, 280 lbs

Description	Part No.
N2-22 Mid Flow Nitrogen Generator without Air Compressor	**N9306210**

Product Specification	
Purity:	95.0 – 99.5%
Atmospheric Dewpoint	-58 °F (-50 °C)
Particles >0.01 µm:	None
Suspended liquids:	None
Min./Max. operating pressure:	60/145 psig (4.0/10 barg)
Ambient operating temperature range:	60 °F – 95 °F (15 °C – 35 °C)
Inlet air temperature range:	60 °F – 95 °F (15 °C – 35 °C)
Maximum recommended inlet air temperature	110 °F (43 °C)
Electrical requirements:	None
Dimensions (net):	45 cm W x 41 cm D x 130 cm H
Weight (shipping):	36 kg, 80 lbs

Flow Rates*		
Inlet psi	Output lpm	Purity %
100	13	99.5
125	16	99.5
100	20	99.0
125	25	99.0
100	30	98.0
125	38	98.0

Description	Part No.
N2-35 Mid Flow Nitrogen Generator without Air Compressor	**N9306211**

Product Specification	
Purity:	95.0 – 99.5%
Atmospheric Dewpoint	-58 °F (-50 °C)
Particles >0.01 µm:	None
Suspended liquids:	None
Min./Max. operating pressure:	60/145 psig (4.0/10 barg)
Ambient operating temperature range:	60 °F – 95 °F (15 °C – 35 °C)
Inlet air temperature range:	60 °F – 95 °F (15 °C – 35 °C)
Maximum recommended inlet air temperature	110 °F (43 °C)
Electrical requirements:	None
Dimensions (net):	45 cm W x 41 cm D x 130 cm H
Weight (shipping):	41 kg, 90 lbs

Flow Rates*		
Inlet psi	Output lpm	Purity %
100	20	99.5
125	25	99.5
100	30	99.0
125	37	99.0
100	46	98.0
125	57	98.0

Description	Part No.
N2-45 High Flow Nitrogen Generator without Air Compressor	**N9306212**

Product Specification	
Purity:	95.0 – 99.5%
Hydrocarbon-free	
Phthalate-free	
Atmospheric Dewpoint	-58 °F (-50 °C)
Particles >0.01 µm:	None
Suspended liquids:	None
Min./Max. operating pressure:	60/145 psig (4.0/10 barg)
Recommended ambient operating temp range	72 °F (22 °C)
Inlet air temperature range:	60 °F – 95 °F (15 °C – 35 °C)
Maximum recommended inlet air temperature	110 °F (43 °C)
Inlet/Outlet ports	1/2" NPT
Electrical requirements:	None (filtration system only)
Dimensions (net):	61 cm W x 50 cm D x140 cm H
Weight (shipping)	114 kg, 250 lbs

*See www.perkinelmer.com for complete listing of flow rates.

Flow Rates*		
Inlet psi	Output lpm	Purity %
100	39	99.5
125	55	99.5
100	53	99.0
125	74	99.0
100	73	98.0
125	106	98.0